



# For Space Heating Applications

SEISCO® / Microtherm, Inc. SH-09

## Model SH-09

### Two-Chamber Tankless Electric Micro-Boiler

**Description:** The Model SH-09 two-chamber tankless electric space heater is designed for use in residential and commercial hydronic space heating applications such as, but limited to, radiant floor heating, baseboard, hydro-heat pump and snow melting systems. This new micro-boiler is the ideal replacement for traditional boilers and tank-type heaters and is the enabling technology for use with active renewable energy systems such as solar and geothermal systems. The temperature activated control works effectively in low pressure and re-circulating systems. Perfect for driveway snow melting, room additions, small shops, garages, etc.

#### Features:

- UL 834 Approval Listing for Space Heating Applications
- Works with tubing and manifold systems
- No minimum flow activation required
- Built-in DSM Utility Integration option
- Compatible with Home Energy Management Systems
- Heats fluid mixtures including ethylene glycol (antifreeze)
- No moving parts
- Very small & compact
- Light weight modular construction
- No restriction to flow
- Standard 3/4 inch plumbing connections
- Microprocessor digital control
- Power sharing & variable power control technology
- Continuous venting
- Heats continuously only when needed, no storage
- Self-diagnostics
- Redundant safety devices
- High performance polymer nylon chamber material
- Built-in Leak detector and alarm
- Rust & corrosion resistant

#### Specifications:

Heat Output (max.): **30,710 BTU**  
 Power Rating (max.): **9 KW**  
 Voltage Rating (Nominal): **240 VAC**  
 Current Rating (max.): **37.5 AMPS**  
 Energy Factor: **0.99+**  
 Heating Elements: **4500 watts x 2**  
 Circuits Required: **One (1), 2-wire w/ ground**  
 Breakers Required: **One (1), double-pole**  
 Breaker Size: **50 AMPS each x 1**

#### Flow Ratings:

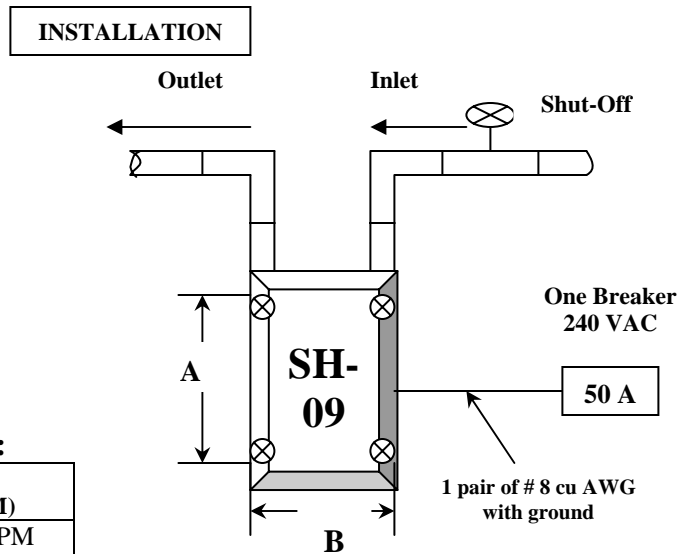
Rise (Deg F) @ Flow (GPM)
61 °F @ 1.0 GPM
40 °F @ 1.5 GPM
30 °F @ 2.0 GPM
24 °F @ 2.5 GPM
Rise (Deg C) @ Flow (L/Min.)
32 °C @ 4 L/min
21 °C @ 6 L/min
16 °C @ 8 L/min
13 °C @ 10 L/min

#### Model SH-09



Exterior

Interior



#### Dimensions:

Weight: 15 lbs (7.0 kg)  
 Height: 15 3/4" (400 mm)  
 Width: 10 1/4" (260 mm)  
 Depth: 6 1/4" (159 mm)  
 Fittings: 3/4" (200 mm)

#### Mounting Holes:

"A" Mount: 14 1/4" (362 mm)  
 "B" Mount: 10 7/8" (276 mm)

#### Approvals:

U.L. CSA NSF  
 HUD NEC

**Warranty** is for Space Heating Applications only and does not cover use for residential or commercial water heating applications.